

Exhibit 1

Darrow, Christopher (Shld-LA-IP)

From: Wenskay, Donald [Donald.Wenskay@disney.com]
Sent: Monday, April 22, 2002 2:57 PM
To: darrowc@gtlaw.com
Subject: New provisional application: "Streaming of Digital Data to a Portable Device"

Follow Up Flag: Follow up
Due By: Tuesday, June 11, 2002 10:00 AM
Flag Status: Flagged

Chris,

I'm sending by overnight mail a new invention disclosure. We need to file a provisional in the next week or so. We have a number of companies interested in licensing this technology, and they want to show it to them. This invention is an extension of the provisional you filed on 12-4-01 entitled "IR Triggering of Portable Devices", file number OWD #20433-16.

The main difference is that this version can receive and display (stream) the data in real time. In the 12-4-01 application all the data had to be previously stored in the portable device before it could be displayed.

Also, several new variations are disclosed, as well as Rf versions.

I would like to file this with a very brief background and summary section, plus some claims. I don't believe we did this for the 12-4-01 filing.

There will be some additional disclosure coming in a day or two, but I thought it would help to get the main disclosure in advance, to get started on it.

Please call me if you have any questions.

Thanks,

Don

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Exhibit 2

Date Printed: 6/12/2007
Page: 1
By: SchombergH
MATDET_L
Database: CMSOPEN

Greenberg Traurig

Time From 01/01/00 to 12/31/2002
Disbursements From 01/01/00 to 12/31/2002

Date	Time ID Disk ID	Bill Num	Bill Date	Base Hrs/Dry	Base Amount	Rate	Std. Amount	Amount	Status	Narrative
Clerk	054317	The Walt Disney Company				Bil Alty	CPD	Darren, Christopher		Clerk Last Payment
Mallie	011200	Streaming Digital Data to a Portable				Rep Alty	CPD	Darren, Christopher		Mallie Last Bill

Detailed Time Scales [Matter]

5/16/02	C/PD	Darrow, Christopher	11814533	902818	6/26/2002	1.89			B
5/16/02	C/PD	Darrow, Christopher	11814776	902818	6/26/2002	6.00			B
6/18/02	C/PD	Darrow, Christopher	1182374	914563	7/24/2002	.80			B

Presuming the provisional application and considering the prior art found in the 1879 patent application, which may be applicable to this invention, discussions with the inventor and his attorney are recommended to determine whether the invention and the prior art have enough in common to file a continuation application. The inventor should consider whether to file two applications or one, discussion about amending one of the Exhibit D embodiment of the filing problem application.

Matter Summary For 01120 Streaming of Digital Data to a Portable

	Base HnCity	Base Amb	Rate	Sel Account	Amount
Feas	16 10	7			
Dib					

Greenberg Traurig

Date Printed: 6/1/2007
 Page: 2
 In: Contingency
 MATTEL
 Database: CNDOPEN
 Grouped by Matter

Matter Time and Disbursement Details

Time From: 07/01/2002

Disbursements From: 01/01/00 to 12/31/2002:

Client Code: 054317
 Matter: 011290
 All Job Rates
 All Cost Codes
 All Activity Codes
 Subtasks Billed

Date

Client Summary For:

054317

The Walt Disney Company

Time ID
Date ID

Bill Num

Bill Date

Base
HourlyBase
Amount

Rate

Std
Amount

Amount

Status

Narrative

	Base Hourly	Base Amt	Rate Std Amount	Amount
Fees	18.10	325.80	18.10	325.80
Dab				
Total				

Exhibit 3

Darrow, Christopher (Shld-LA-IP)

From: Darrow, Christopher (Shld-LA-IP)
Sent: Friday, May 10, 2002 5:17 PM
To: Donald Wenskay (E-mail)
Subject: Provisional Application - Streaming of Digital Data to a Portable Device

Hi Don,

How was the vacation? Here's something for you to look at as you settle back into work mode. It includes a few claims, but we could add a lot more. Actually, this gets us pretty close to a non-provisional application, so depending on your time constraints, we could consider finishing this as a formal application. Your email dated April 22 mentioned that "There will be some additional information coming in a day or two", but I did not receive any information other than the overnight package you sent on April 22.

Your comments will be appreciated.

Best regards,
Chris



2VZ001!.DOC

PS Here is my new contact information and a vCard, which you can import into Outlook if you use that.

Christopher Darrow
Greenberg Traurig, LLP
2450 Colorado Avenue, Suite 400E
Santa Monica, CA 90404

Phone 310-586-7895 (direct)
Fax 310-586-0295 (direct)
darrowsc@gtlaw.com
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Christopher Darrow

**PROVISIONAL APPLICATION
STREAMING OF DIGITAL DATA TO A PORTABLE DEVICE**

BACKGROUND

1. Field of the Invention

The present invention relates generally to the use of infrared and/or radio frequencies to stream digital data to portable devices in a mass audience or in designated broadcast area.

2. Description of the Background Art

There are several circumstances which may interfere with a person's ability to hear, and thereby interfere with the presentation of information to the listener. For example, persons with hearing loss may miss narratives, sound effects, music and other sound material related to the presentation, and messages in live performances, films, television and special events. Persons who do not speak the language or languages used in the presentation may miss narratives and other related messages that are presented. The language barrier prevents many people from different cultures and languages from understanding, participating or interacting with the information being presented. Background environmental noise may also affect a person's ability to hear, and thereby diminish the effect of the presentation. Additionally, presentations often could be made more effective if they included a method to provide interactivity between the audience and the presenter(s).

Captioning systems have been used in many venues including museums, theaters and other auditoriums to provide foreign language translation or captioning for the hearing impaired. These systems are either 1) "open captioning" on a projected surface or large adjacent display area where the entire audience can see the captioning; 2) reflective captioning using a transparent but reflective panel to display the text from a rear projection while allowing the viewer to see the display or performance through the panel; or, 3) hard-wired displays in the back of the seat in front of the viewer.

It is therefore an object of this invention to provide a method of presenting random and/or synchronized information (narratives, translations, interactive games, control signal commands or other show related messages) to patrons of shows, movie theaters, exhibit halls/auditorium and/or designated areas through an unobtrusive device.

SUMMARY OF THE INVENTION

The present invention makes use of infrared (IR) emission and/or radio frequency (RF) transmission to stream data to a portable device for closed captioning, language translation for multi-cultural language groups, previews, games, control of devices and/or similar applications. The portable captioning device could be carried by a person and/or the device could be placed in a fixture for hands free use. Before or at the time of the

start of a presentation or presentations, the IR/RF system will start the transmission of data to the portable units. The transmission will synchronize the portable device with the presentation or presentations for captioning, language translation, previews, games, control of devices and/or similar applications. The portable device might be based on existing technologies such as mobile phone, personal digital assistant (PDA) or a combination of both mobile phone and PDA, a custom designed device specifically for this application, or an interactive device. This system can be combined with an existing audio stream for the hearing impaired, descriptions for the blind and/or language translation. For example, the invention may provide for infrared streaming for assistive listening systems.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic view of a system of the invention utilizing IR signals.

Fig. 2 is a schematic view of a system of the invention utilizing RF signals.

Fig. 3 is a schematic view of a portable display device receiving an IR signal.

DESCRIPTION OF THE PREFERRED EMBODIMENT

The hardware requirements of the preferred embodiment of this system are depicted in Figs. 1 and 2. A time code reader 10, which in this embodiment is an optical time code reader, is capable of reading time codes from a show device 12 such as a film projector, show control computer or another media source. A central processing unit (CPU) 14 receives the time code signal from the reader 10 and synchronizes the content with the film and/or presentation, which may be a movie screen 15. Examples of content are text captioning, language translation, games and/or other related applications. The central processing unit 14 has the capability to access and interpret the content. The content can reside on the internal memory of the central processing unit 14 and/or as a removable memory media.

The CPU 14 will deliver the synchronized data to the infrared (IR) emitters 16, which are capable of delivering IR messages or control data to a portable device 18, which may be operated either in an indoor or outdoor environment. Alternatively, a low-powered licensed and/or non-licensed radio frequency (RF) system can also be used to deliver the synchronized data to the portable device via an RF signal. Fig. 2 depicts an RF receiver 24 and RF transmitter 22, which interact with a portable RF capable device 24 to achieve the same results as the IR system previously described.

The portable display device 18, 24 has sufficient internal and/or removable memory to allow storage of all data to be presented. All required data may be transmitted to the device 18, 24 in one session for display at predetermined times or upon receipt of a start signal, or the data may be transmitted in a plurality of sessions for display in real time. The device 18 includes infrared ports capable of receiving and/or emitting infrared messages. Messages emitted from the portable display device 18 are read by one or more IR detectors 19. In an alternative embodiment, the device 18 could also contain RF

receiver and/or transmitter ports capable of receiving and transmitting RF messages. The portable device 18 will receive the IR signal and convert the signal to information that can be stored and/or displayed in sync with the presentation. The device 18 and 24 may also contain the capability to receive and play audio such as for assistive listening and/or audio language translations, or program material specific to the presentation.

The system could also recognize show/presentation start and/or end signals. The system could then transmit random and/or synchronized information to the patrons possessing a device. This will allow the patrons to interact with the device while waiting for the show/presentation to start or after the show/presentation has ended.

One possible application of the invention is depicted in Fig. 3. In this application, time code information is read by the CPU 14, which then accesses on board content available in memory, and delivers the synchronized data to the infrared emitters 16, which are in turn capable of delivering IR messages. A portable device 24 receives the IR messages and converts the IR messages to presentable data. In this instance, the IR receiver 19 is a modification to an existing device such as a PDA (for example, a Palm type device) and/or a pocket PC (for example, a Compaq iPAQ) that can store and/or immediately display the data. The IR receiver takes the IR signal from the emitter and translates it to an electronic signal for the serial port 22 of the PDA and/or pocket PC. A terminal software program converts the electronic signal into data that is presented as text on the display screen 26.

This invention may be adapted for uses such as text captioning and language translation in movie or live theaters, consumer products which can provide an interactive experience, and to provide a wireless link for control signals to equipment, devices or products which are used in public presentations.

CLAIMS

1. A method for displaying content data on a readable display in conjunction with a media presentation comprising the steps of:
 - displaying media presentation data, said media presentation data including time prompts;
 - said content data having sequences correlated to the time prompts;
 - detecting the time prompts in the media data; and
 - transmitting to the readable display the sequence of content data associated with a detected time prompt.

The method of claim 1 wherein the transmitting is by way of an IR signal.

The method of claim 1 wherein the transmitting is by way of an RF signal.

The method of claim 1 wherein the transmitting is by way of a wired connection.

The method of claim 1 wherein the media data is prerecorded.

The method of claim 1 wherein the media data is a live performance.

The method of claim 1 further including the step of storing the content data in a memory device.

The method of claim 1 wherein the time prompts are optically readable.

2. A method for presenting content data on a readable display device comprising the steps of:

- providing content data to be displayed at a predetermined time;
- providing time prompts on a film;
- detecting the time prompts on the film;
- correlating content data with the time prompts; and
- at a given time prompt, sending the correlative content data by IR signal to the display device.

3. A method for displaying content data on a readable display comprising the steps of:

- providing content data to be displayed at a predetermined time;
- providing media presentation data having time prompts;
- said content data correlated with the time prompts;
- detecting the time prompts in the media presentation data;
- at a given time prompts, transmitting the correlative content data to the readable display; and
- displaying the content data on the readable display.

4. A method for displaying information on a readable display comprising the steps of:

- storing information to be displayed at a predetermined time;
- displaying media data, said media data including time prompts;
- said information correlated to at least one of the time prompts; and
- at a given time prompt, transmitting the correlative information to the readable display.

5. A method for interactive communication in conjunction with a media presentation comprising the steps of:

- providing a content display device having a readable display;
- storing content data for display;
- presenting media presentation data having time prompts;
- said content data having sequences correlated to the time prompts;
- detecting the time prompts in the media presentation data;
- transmitting to the readable display the sequence of content data correlated with a detected time prompt; and

providing inputs on the content display device adapted to receive information from a viewer.

5. An apparatus for streaming digital data to a portable device during a media presentation comprising:

- a memory device storing the digital data prior to transmission;
- a readable display on the portable device on which the digital data is displayed after transmission;
- an IR emitter transmitting the digital data;
- an IR receiver on the portable device receiving the digital data;
- time prompts in the media presentation;
- a time prompt detector;
- a data processor associating the detected time prompts to the digital data according to predetermined rules; and
- transmitting digital data correlated with the time prompts from the IR emitter to the IR receiver.

Exhibit 4

Telecopier Cover Sheet

Date: **May 21, 2002**

To: Tom Craven
FAX #: 407-566-5136

To: Greg Hale
FAX #: 407-824-7576

To: Phu Nguyen
FAX #: 407-824-7403

From: Don Wenskay
FAX #: 818-557-8440
Phone: 818-560-8973

Total Number of Pages (including this cover sheet): 6
If you do not receive all of these pages, please call 818-560-8953 or tie line 8228-8953.

Comments

Please review the attached provisional application prepared by Chris Darrow at Greenberg Traurig, LLP and let me know if you have any questions or comments. Note that this document is based on the materials attached to your memo of 4-19-02.

Kindly let me know if there is any additional technical information that should be added.

Thank you.

Don

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message. Thank you.

PROVISIONAL APPLICATION
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3. A method for displaying content data on a readable display comprising the steps of:

- providing content data to be displayed at a predetermined time;
- providing media presentation data having time prompts;
- said content data correlated with the time prompts;
- detecting the time prompts in the media presentation data;
- at given time prompts, transmitting the correlative content data to the readable display; and
- displaying the content data on the readable display.

4. A method for displaying information on a readable display comprising the steps of:

- storing information to be displayed at a predetermined time;
- displaying media data, said media data including time prompts;
- said information correlated to at least one of the time prompts; and
- at a given time prompt, transmitting the correlative information to the readable display.

5. A method for interactive communication in conjunction with a media presentation comprising the steps of:

- providing a content display device having a readable display;
- storing content data for display;
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a memory device storing the digital data prior to transmission;

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an IR emitter transmitting the digital data;

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time prompts in the media presentation;

a time prompt detector;

a data processor associating the detected time prompts to the digital data according to predetermined rules; and

transmitting digital data correlated with the time prompts from the IR emitter to the IR receiver.

.....(AUTO).....

THE FOLLOWING FILE(S) ERASED

FILE FILE TYPE
047 MEMORY TX

OPTION

TEL NO.
14078247576

PAGE RESULT
06/06 OK

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ERRORS

- 1) HANG UP OR LINE FAIL 2) BUSY 3) NO ANSWER 4) NO FACSIMILE CONNECTION

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